Maryland Department of Budget & Management

Information Technology Project Request (ITPR) Form

Back To Summary | Section 1A | Section 1B | Section 1C | Section 1D

To Bottom

SECTION 1A. GENERAL INFORMATION

Agency:	Department of Health and Mental Hygiene
Project Title:	Electronic Substance Abuse Management System (eSAMIS)
Executive Business Sponsor:	Peter F. Luongo, Ph.D.
IT Project Manager:	Lucinda Shupe
Phone:	410-402-8591

Indicate all Agency Senior Management that have reviewed and approved project (indicate all that apply):

☑ Executive Business Sponsor ☑ Agency CIO ☐ Agency CFO

Budget:

Appropriation Code (8 Digit RSTARS Code):	M00C0105
Sub Program Code (4 Digit RSTARS Code):	B503
PCA Code (5 Digit RSTARS Code):	B5035

Over CSB (Y/N):	No
Project Level:	Ongoing
Project Plan Number:	3 (Unique identifier of project)
Project Type:	System Enhancement

Project Classification:

Major Project (Y/N):	Yes
Cross Cutting (Y/N):	Yes

To Top To Bottom

SECTION 1B. PROJECT INFORMATION

PROJECT DESCRIPTION:

The Alcohol and Drug Abuse Administration (ADAA) is developing and implementing an electronic web-enabled data management system to assess treatment program performance and provide individual programs with the ability to utilize their clinic data to make service delivery improvements. This system is expanding upon the data elements collected by the ADAA Substance Abuse Management Information System (SAMIS). SAMIS contains information on all client admissions to and discharges from the State certified programs in Maryland. The enhanced system utilizes and improves upon the technology and infrastructure of the HIDTA Automated Tracking System (HATS) client-server software operated by the University of Maryland, Bureau of Government Research (BGR) currently being used in some jurisdictions as a data collection and communication tool between treatment programs and criminal justice agencies. The new system allows the ADAA, working with BGR and the University of Maryland Center for Substance Abuse Research (CESAR), to continuously monitor and analyze what kinds of treatment services are most successful for specific client populations so that the services can be replicated statewide. The new system will also ensure that programs are collecting vital data that can be used to improve program practices. With increasing demands for accountability for ADAA's substance abuse treatment resource allocation, the agency must develop a defensible performance measurement system that take

PROJECT STATUS:

The project is currently in the testing phase with 31 pilot sites participating in a test of the eSAMIS design. The web-based system is in development with initial testing to begin shortly. Overall, the project is on time and within budget.

IT SOLUTION:

Technology:

ADAA has contracted with the BGR to develop a web-based collection system and to provide a data

warehousing service with periodic uploads to the ADAA server. During the development of the ADAA web-based data collection system, treatment providers are transitioning SAMIS to electronic reporting using the current BGR VB application. ADAA Server ADAA's e-SAMIS server is a Dell Power Edge 2400, Pentium III, 866 MHz with a dual processor, 512 MB SDRAM, RAID 5 controller with four (4) 36.2 GB hard drives, External DLT Tape Backup, 3 ½ 1.44 MB Diskette Drive and 17/40x SCSI CD-ROM, 6 Bay Hot pluggable backplan. The server will be running Windows NT 4.0 configures as a Primary Domain Controller, with MSQL 2000, Norton Anti-Virus protection software and ARC Serve for Window NT Exec for tape back-up. The application used on the client side will be Microsoft Access 2000 as a front end. BGR Server BGR provides the HATS platform via as follows: 128-bit SSL Server ID's from Verisign Cisco Secure ACS using TACACS+ SSL technology is supported by several client applications such as Netscape Navigator, and Microsoft Internet Explorer, most server applications such as Netscape, Microsoft, Apache, and NSCA, and Certification Authorities (CA's) such as Verisign. All Servers are Compaq products. The e-SAMIS Server is a Compaq ML-530 with 4 GIG of RAM and 9 hard drives. The Web/Application Server is Compaq ML-530 with 4 GIG of RAM and 7 hard drives. The two Metaframe Servers are also Compaq 530 with 3 GIG of RAM and 5 hard drives. The routers are all CISCO 3660 or 1700's with IOS 12.1 or greater. The external firewall is Checkpoint 4.1 running on Windows NT 4.0 server. The server is running Windows 2000 server SP2 or later, with MSQL 7.0, Norton Enterprise Antivirus 7.5. The application is Visual Basic. An additional layer of anti-virus protection is included in the Vertas Backup Exec software. Web Users: Users accessing the e-SAMIS application via the Internet using a web browser accessing web pages created by BGR; and VB (Visual Basic) Application Users: Users connecting through private networks, dialup connections, and Internet VPN using a client application created by BGR. The architecture accommodates both types of users and ensures that the e-SAMIS application provides necessary data security. The Web Users will access the Web/Application Server that will be on the DMZ area of the firewall; the

Program Strategic Goals:

The new system will allow the ADAA, working with BGR and the Center for Substance Abuse Research (CESAR), to continuously monitor and analyze what kinds of treatment services are most successful for specific client populations so that the services can be replicated statewide. The enhanced system will utilize and improve upon the technology and infrastructure of the HIDTA Automated Tracking System (HATS) client-server software operated by the Bureau of Government Research (BGR) currently being used in some jurisdictions as a data collection and communication tool between treatment programs and criminal justice agencies. The new system will also ensure that programs are collecting vital data that can be used to improve program practices. Key Objectives: Enhance current SAMIS data collection application and technology to incorporate statewide standards of program performance. Provide an interface that is customer friendly and available 24 hours a day/7 days a week

Critical Success Factors:

Critical Success Factors: The Center for Substance Abuse Research (CESAR) is dedicated to addressing the problems that substance abuse creates for individuals, families, and communities. To this end, the mission of CESAR is to inform policymakers, practitioners, and the general public about substance abuse--its nature and extent, its prevention and treatment, and its relation to other problems. In pursuing its mission, CESAR conducts policy-relevant research and evaluation studies, disseminates statistical and other information, helps train students in substance abuse research methods and policy analysis, and provides technical assistance to agencies and organizations working in related fields. Overall, CESAR's primary role in the e-SAMIS project will be to provide scientific leadership and expertise on research issues, including the design of studies, interpretation and translation of study findings into practical recommendations to improve drug treatment service delivery. Speci

Major Stakeholders:

The major stockholders include all certified, public and private funded treat providers in the State of Maryland. Secondary stakeholders include both public and private SAMIS data requesting entities such as researchers that use SAMIS data for public and private research development.

Major Customers:

The major customers for e-reporting of SAMIS data will include all certified treatment programs in the State of Maryland by FY 04.

External Dependencies:

BGR has followed a tailored version of a standard SDLCM often defined as an Incremental Model. The Incremental Model will be used to take advantage of combining a linear sequential approach with an iterative prototyping strategy. The Incremental Model enables BGR to develop a close relationship with ADAA representatives since many of the activities are collaborative and iterative in nature. The collaborative aspects of an Incremental Model require a close partnership with ADAA and iterations ensure frequent and meaningful contact. The Incremental Model will consist of several overlapping phases. These phases and key management processes are graphically depicted in the following figure: Deliverables and phases will be defined during the project life cycle. It is also important to understand that the Incremental Model phases are not necessarily sequential.

Acquisition Strategy:

BGR will submit e-SAMIS data via e-mail, encrypted to ADAA. ADAA will then take the data sent by e-mail and place it on the MSQL Server. ADAA will then encrypt the data and submit it to CESAR through the DHMH e-mail system. All e-mail that is being forward to ADAA and/or sent out will require going through DHMH external firewall and checked for viruses. CESAR will complete the pr\performance outcome measurements for eSAMIS.

Authority Mandate: Yes

The Project was based on a recommendation of the Lt. Governor's Maryland Treatment Task Force and the General Assembly to improve monitoring of program performance. The Treatment Task Force recommended the implementation of a statewide performance measurement system to strengthen program performance. Reporting to this system is a requirement of State certification for treatment providers in the State of Maryland.

BUSINESS NEED/JUSTIFICATION:

The implementations of a State-wide electronic web-based data management system will enable ADAA assess treatment program performance outcomes and provide individual programs with the ability to utilize their clinic

data to make service delivery improvements

BENEFITS:

External:

Provides an interface that is customer friendly and available 24 hours/7 days a week which complies with the eGovernment initiative. Increase the utility and availability of the data to the treatment providers Provides treatment programs with the appropriate technology to enable access to the electronic system.

Internal:

Enhance current SAMIS data collection application and technology to incorporate statewide standards of program performance. Increase consistency and quality of data reported by treatment programs by enhancing onsite training and validation initiatives. Increase the timeliness and utility of the data submitted to ADAA for analysis and research by eliminating time consuming conversion of paper forms to direct electronic entry.

Return on Investment:

Information not submitted

MAJOR RISKS:

No information submitted

Known or Anticipated Scope Change:

Risks are minimal for vender default. The vendor(s) are both public agencies. If BGR should default, all of the source code is in public domain and belongs to ADAA. ADAA would merely shift project development to internal resources.

Known or Anticipated Cost Change:

Due to the nature of the risks outlined above, any anticipated cost changes would be minimal.

COMPLIANCE WITH STATE SECURITY AND PRIVACY REQUIREMENTS:

Security Architecture: The security architecture for the ADAA eSAMIS server will be implemented recognizing the need to maintain the following: Confidentiality: Protecting client information from inappropriate disclosure. A client consent process within the application controls information disclosure. Information is not disclosed outside of the application controls. This will be achieved through encryption during the transmission of the data being sent from BGR to ADAA and then ADAA to CESAR. Integrity: Ensuring that data is not accidentally or intentionally modified or corrupted. This will be achieved through encryption. Availability: The eSAMIS server will be operating at all times. This is generally achieved through incorporating redundancy in system set-up and implementing consistent and reliable backups. The architecture accommodates both types of users and ensures that the eSAMIS application provides necessary data security. The Web Users will access the Web/Application Server that will be on the DMZ area of the firewall; they will be authenticated via a CISCO Secure ACS Server using TACAC+ protocol. Access to the MSQL database will only be available from the Web/Application Server. Access to the network that houses the MSQL server will be further restricted by a Protocol Filter that will only allow the Web/Application Server access to the MSQL protocol. The entire session between the client browser and the Web/Application Ser

CONFORMITY TO STATE ARCHITECTURE AND POLICY STANDARDS:

To Top To Bottom

SECTION 1C. SCHEDULE

A screen resolution of 1024 x 768 and landscape print setting will display best results

List the major lifecycle milestones associated with this project. Note that it is the intent to conduct Agency project assessments semiannually or at the nearest major milestone.

Phase	Major Milestones	Planned Start Date (mm/dd/yy)	Actual Start Date (mm/dd/yy)	Planned End Date (mm/dd/yy)	Actual End Date (mm/dd/yy)
Initiation/Concept	Drug Treatment Task Force findings and recommendations	07/01/98	07/01/98	02/01/01	02/01/01
Planning/Req. Analysis	Focus Group on eSAMIS data elements	08/01/01	08/01/01	09/01/01	09/01/01
Design/Development/ Integration/Test	Pilot Test eSAMIS elements using current VB application	01/01/02	02/01/02	07/30/02	
	Design and develop web application prototype ready for testing	06/30/02	06/30/02	08/31/02	
	Transition of certified programs onto eSAMIS	07/01/03		09/01/03	

Implementation					
Operations/Maintenance	Operations and maintenance of eSAMIS reporting system warehousing	08/01/03		06/30/08	
Disposition (Not required)					

To Top To Bottom

SECTION 1D. COST A screen resolution of 1024 x 768 and landscape print setting will display best results

PART A. SUMMARY OF SPENDING FOR PROJECT COST

(Provide Project Cost Data and Estimates)

Project Phase Cost

GENERAL FUNDS	Prior to FY02	Actual FY02	Approp FY03	Budget Req FY04	Gov Allow FY04	Projected FY05	Projected FY06	Projected FY07	Projected FY08	Total GF*
Initiation/Concept	0	0	0	0	0	0	0	0	0	0
Planning/Req. Analysis	0	0	0	0	0	0	0	0	0	0
Design/Development Integration/Test	0	0	0	0	0	0	0	0	0	0
Implementation	0	0	0	0	0	0	0	0	0	0
Operations/ Maintenance	0	0	0	0	0	1,423,569	1,431,047	1,445,357	1,445,811	5,745,784
TOTAL GF	0	0	0	0	0	1,423,569	1,431,047	1,445,357	1,445,811	5,745,784
SPECIAL FUNDS Excluding MITDPF	**Prior to FY02**	**Actual FY02**	**Approp FY03**	**Budget Req FY04**	**Gov Allow FY04**	**Projected FY05**	**Projected FY06**	**Projected FY07**	**Projected FY08**	**Total SF Excl MITDPF***
Initiation/Concept	0	0	0	0	0	0	0	0	0	0
Planning/Req. Analysis	0	0	0	0	0	0	0	0	0	0
Design/Development Integration/Test	0	0	1,300,000	0	0	0	0	0	0	1,300,000
Implementation	0	0	0	0	0	0	0	0	0	0
Operations/ Maintenance	0	0	0	1,387,090	0	0	0	0	0	1,387,090
TOTAL SF (Excl MITDPF)	0	0	1,300,000	1,387,090	0	0	0	0	0	2,687,090
SPECIAL FUNDS MITDPF	**Prior to FY02**	**Actual FY02**	**Approp FY03**	**Budget Req FY04**	**Gov Allow FY04**	**Projected FY05**	**Projected FY06**	**Projected FY07**	**Projected FY08**	**Total SF MITDPF***
Initiation/Concept	0	0	0	0	0	0	0	0	0	0
Planning/Req. Analysis	0	0	0	0	0	0	0	0	0	0
Design/Development Integration/Test	0	0	0	0	0	0	0	0	0	0
Implementation	0	0	0	0	75,000	0	0	0	0	0
Operations/ Maintenance	0	0	0	0	750,000	0	0	0	0	0
TOTAL SF (MITDPF)	0	0	0	0	825,000	0	0	0	0	0
SPECIAL FUNDS SUMMARY	**Prior to FY02**	**Actual FY02**	**Approp FY03**	**Budget Req FY04**	**Gov Allow FY04**	**Projected FY05**	**Projected FY06**	**Projected FY07**	**Projected FY08**	**Total SF***
Initiation/Concept	0	0	0	0	0	0	0	0	0	0
Planning/Req.	0	0	0	0	0	0	0	0	0	0

Analysis	0	0	0	0	0	0	0	0	0	0
Design/Development Integration/Test	0	0	1,300,000	0	0	0	0	0	0	1,300,000
Implementation	0	0	0	0	75,000	0	0	0	0	0
Operations/ Maintenance	0	0	0	1,387,090	750,000	0	0	0	0	1,387,090
TOTAL SF	0	0	1,300,000	1,387,090	825,000	0	0	0	0	2,687,090

FEDERAL FUNDS	Prior to FY02	Actual FY02	Approp FY03	Budget Req FY04	Gov Allow FY04	Projected FY05	Projected FY06	Projected FY07	Projected FY08	Total FF*
Initiation/Concept	0	0	0	0	0	0	0	0	0	0
Planning/Req. Analysis	0	0	0	0	0	0	0	0	0	0
Design/Development Integration/Test	0	0	0	0	0	0	0	0	0	0
Implementation	0	0	0	0	0	0	0	0	0	0
Operations/ Maintenance	0	0	0	0	0	0	0	0	0	0
TOTAL FF	0	0	0	0	0	0	0	0	0	0

REIMBURSABLE FUNDS	Prior to FY02	Actual FY02	Approp FY03	Budget Req FY04	Gov Allow FY04	Projected FY05	Projected FY06	Projected FY07	Projected FY08	Total RF*
Initiation/Concept	0	0	0	0	0	0	0	0	0	0
Planning/Req. Analysis	0	0	0	0	0	0	0	0	0	0
Design/Development Integration/Test	0	0	0	0	0	0	0	0	0	0
Implementation	0	0	0	0	0	0	0	0	0	0
Operations/ Maintenance	0	0	0	0	0	0	0	0	0	0
TOTAL RF	0	0	0	0	0	0	0	0	0	0
TOTAL ALL FUNDS	0	0	1,300,000	1,387,090	825,000	1,423,569	1,431,047	1,445,357	1,445,811	8,432,874

*Total does not include Governor's Allowance

Project Expenditures by Comptroller Object

COMPTROLLER OBJECT CODES	Prior to FY02	Actual FY02	Approp FY03	Budget Req FY04	Gov Allow FY04	Projected FY05	Projected FY06	Projected FY07	Projected FY08	Total*
01. Salaries, wages	0	0	0	0	0	0	0	0	0	0
02. Technical & fees	0	0	0	0	0	0	0	0	0	0
03. Communications	0	0	0	0	0	0	0	0	0	0
04. Travel	0	0	0	0	0	0	0	0	0	0
06. Fuel & Utilities	0	0	0	0	0	0	0	0	0	0
07. Motor Vehicle Oper. & Maint.	0	0	0	0	0	0	0	0	0	0
08. Contractual Services	0	0	1,300,000	1,387,090	825,000	1,423,569	1,431,047	1,445,357	1,445,811	8,432,874
09. Supplies & Materials	0	0	0	0	0	0	0	0	0	0
10. Equipment Replacement	0	0	0	0	0	0	0	0	0	0
11. Equipment Additional	0	0	0	0	0	0	0	0	0	0
12. Grants, Subsid. & Contrib.	0	0	0	0	0	0	0	0	0	0
13. Fixed Charges	0	0	0	0	0	0	0	0	0	0
14. Land & Structures	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	1,300,000	1,387,090	825,000	1,423,569	1,431,047	1,445,357	1,445,811	8,432,874

*Total does not include Governor's Allowance

To Top

Back To Summary